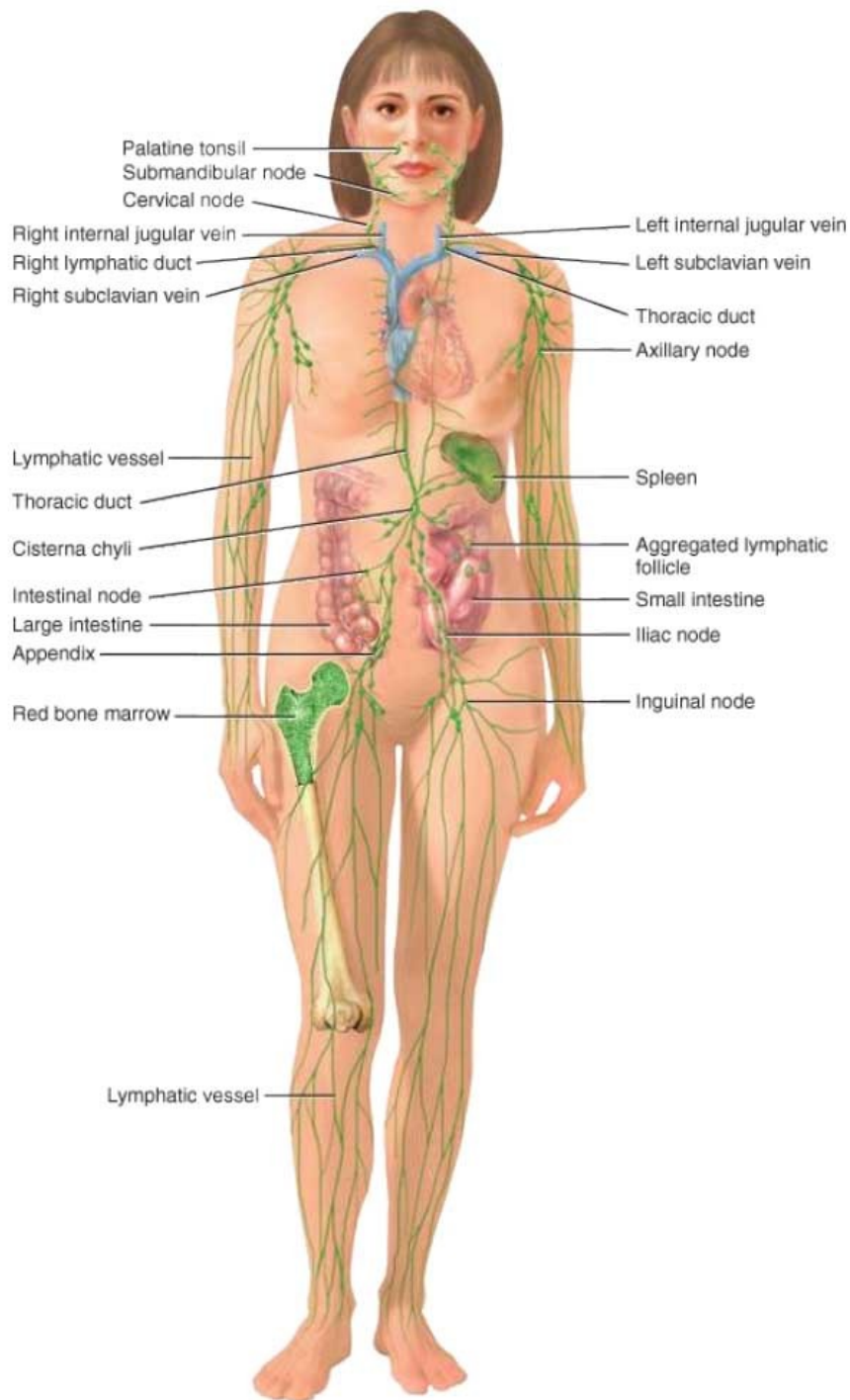


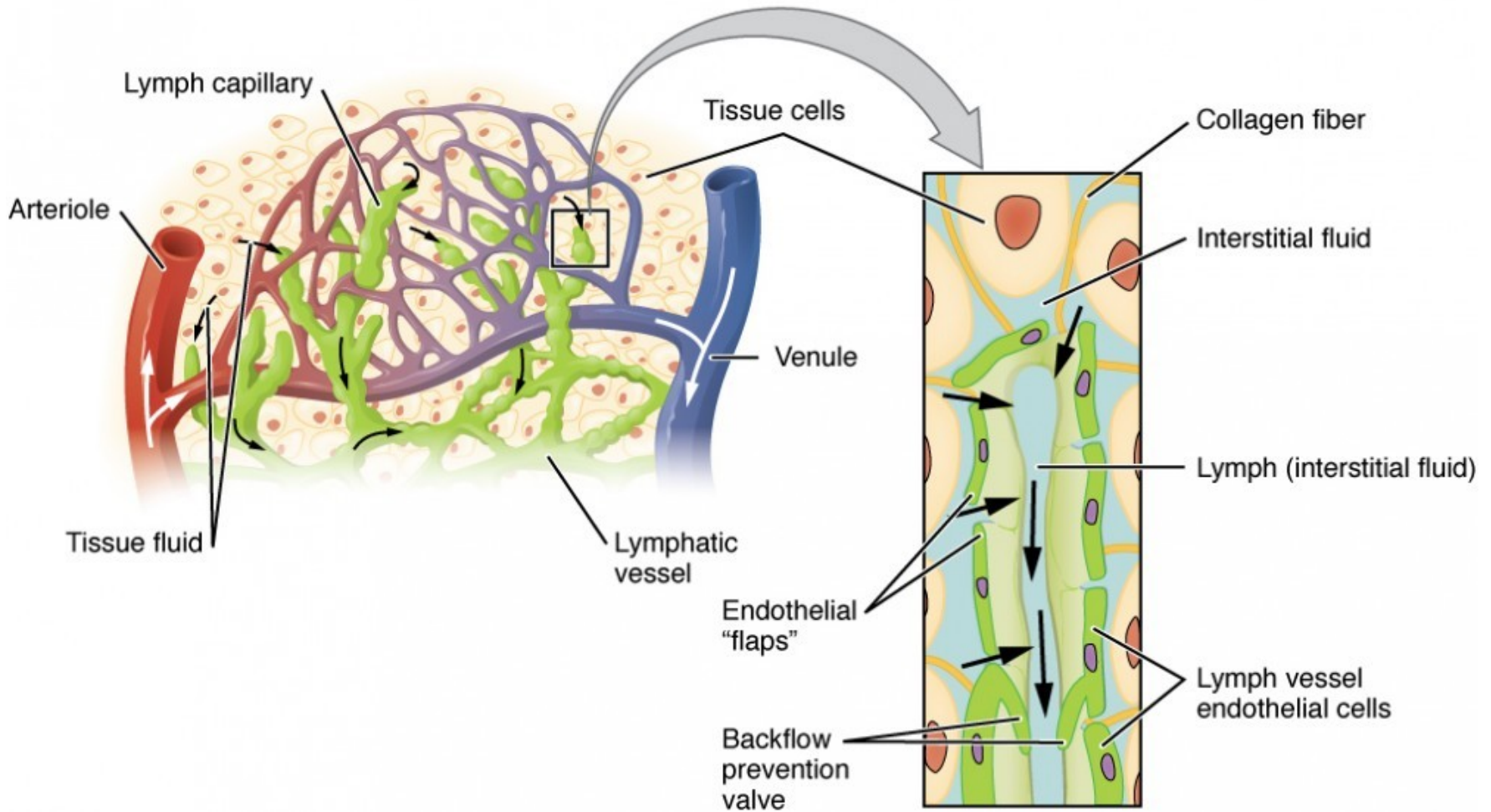
# Lymphatic System



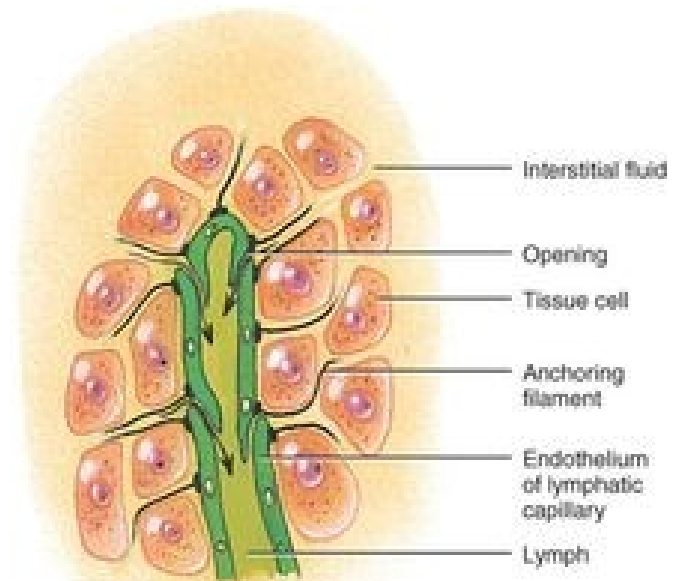
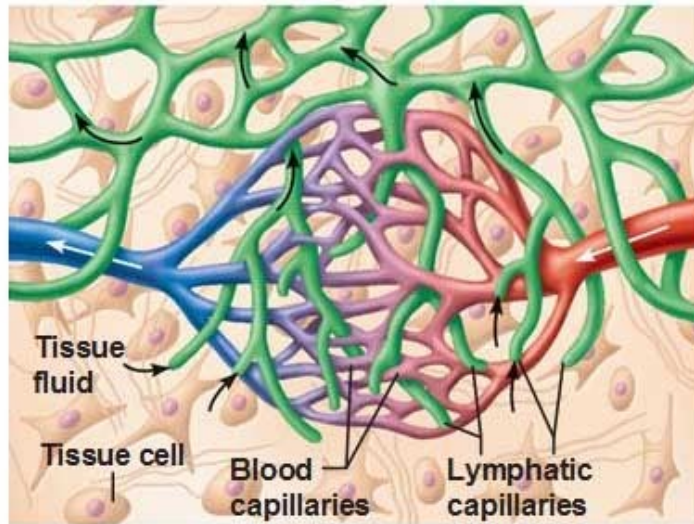
The **lymphatic system** consists of a fluid called lymph, vessels called lymphatic vessels that transport the lymph, a number of structures and organs containing lymphatic tissue (lymphocytes within a filtering tissue), and red

# Lymph Channels of the Body

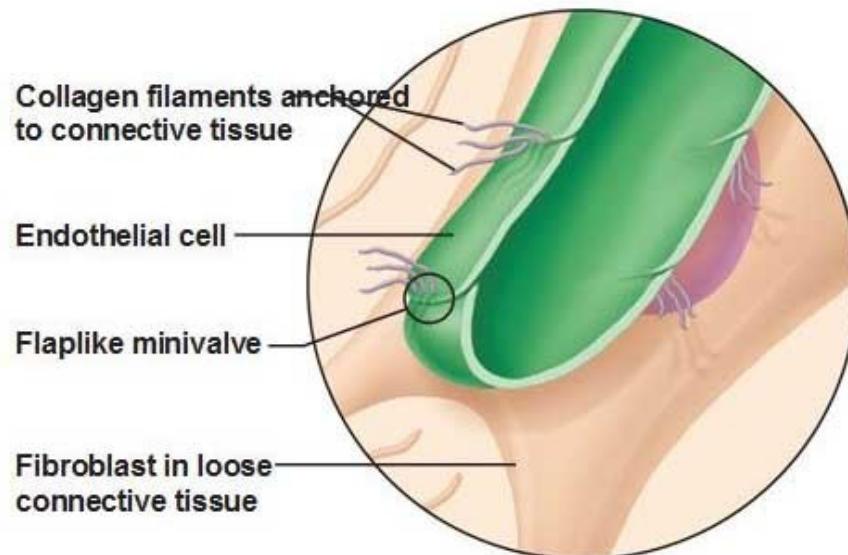
Lymph capillaries in the tissue spaces



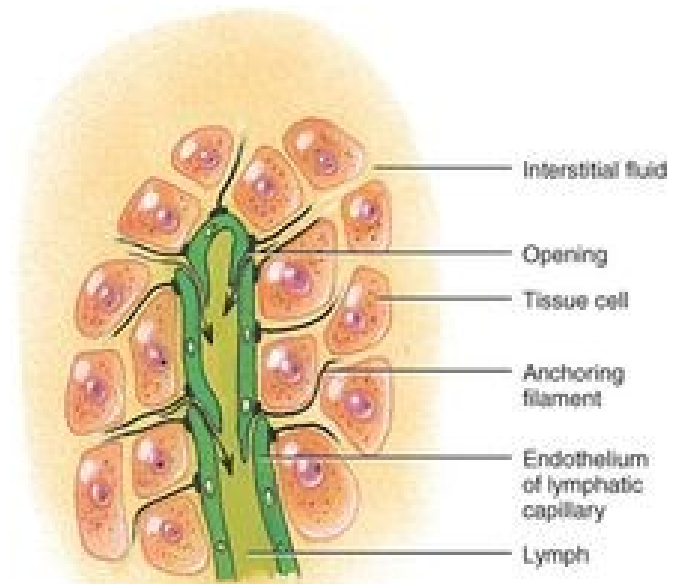
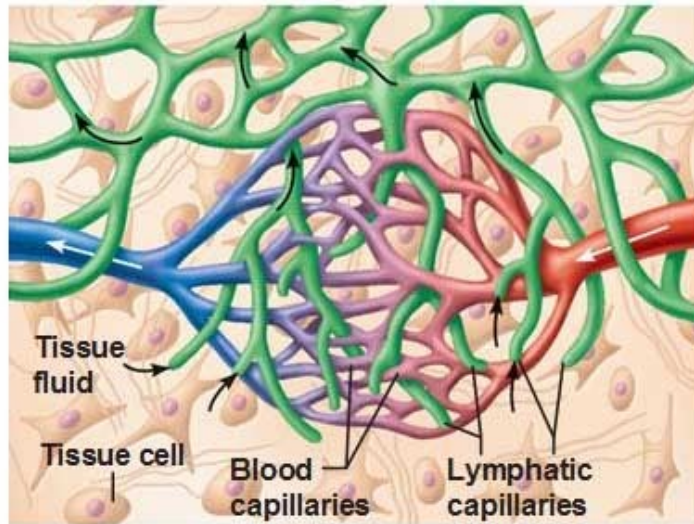
# Terminal Lymphatic Capillaries



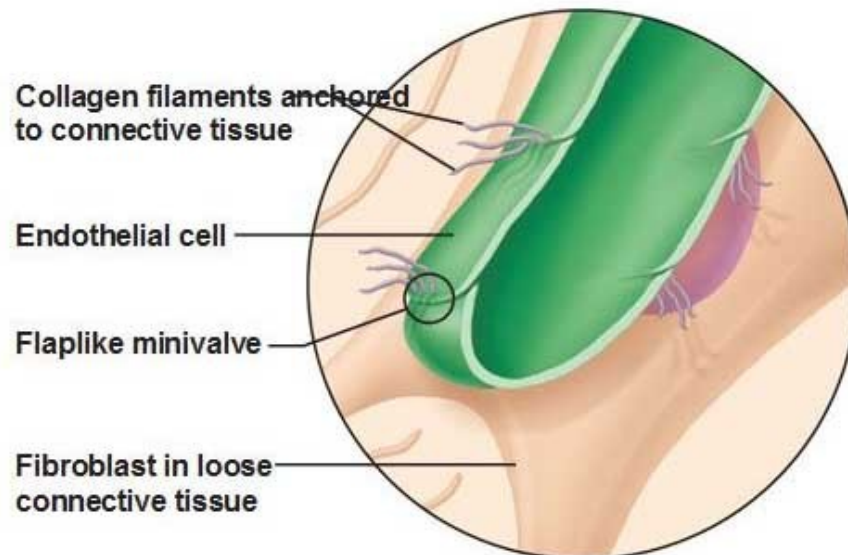
(b) Details of a lymphatic capillary



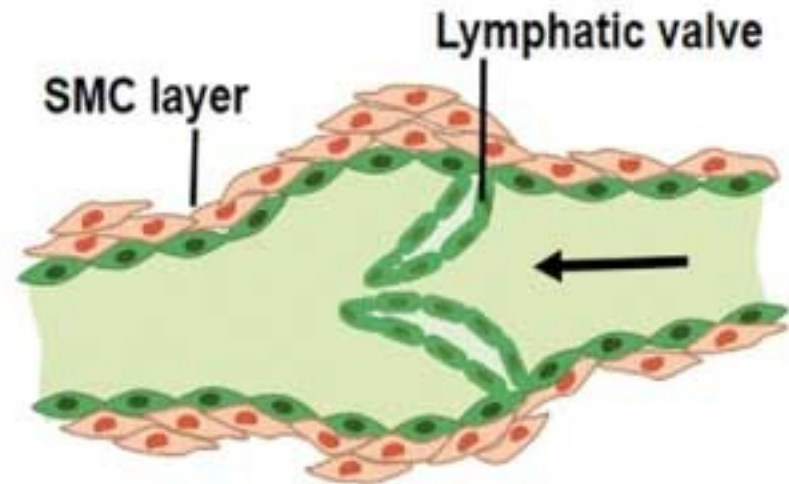
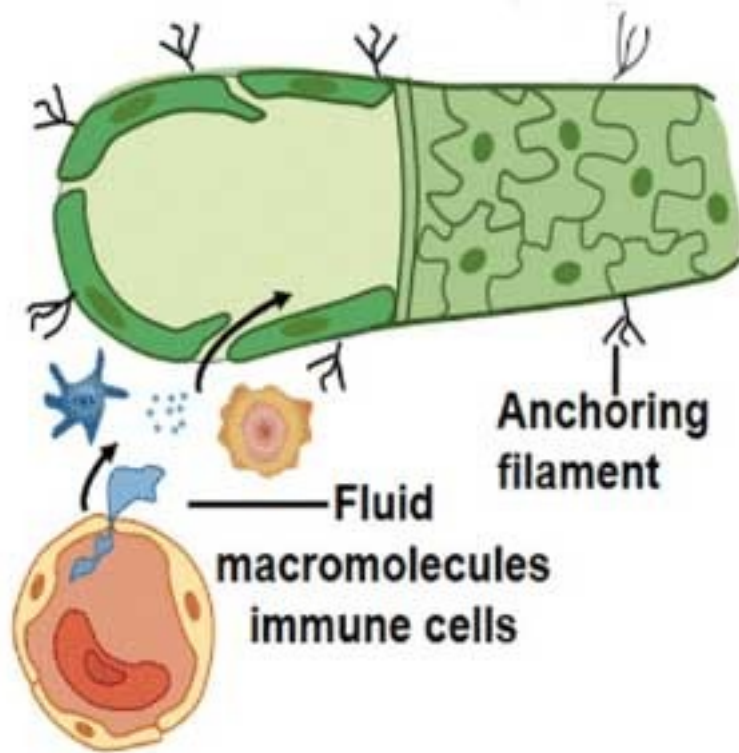
# Terminal Lymphatic Capillaries



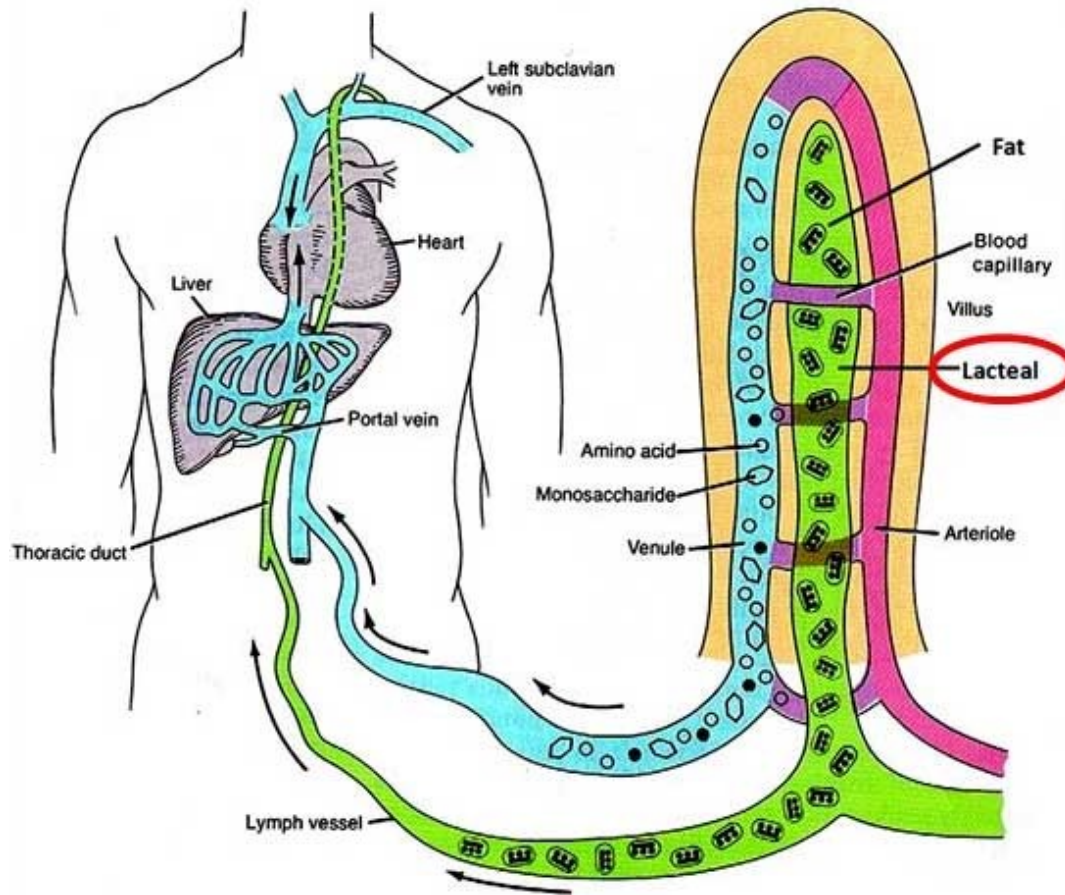
(b) Details of a lymphatic capillary



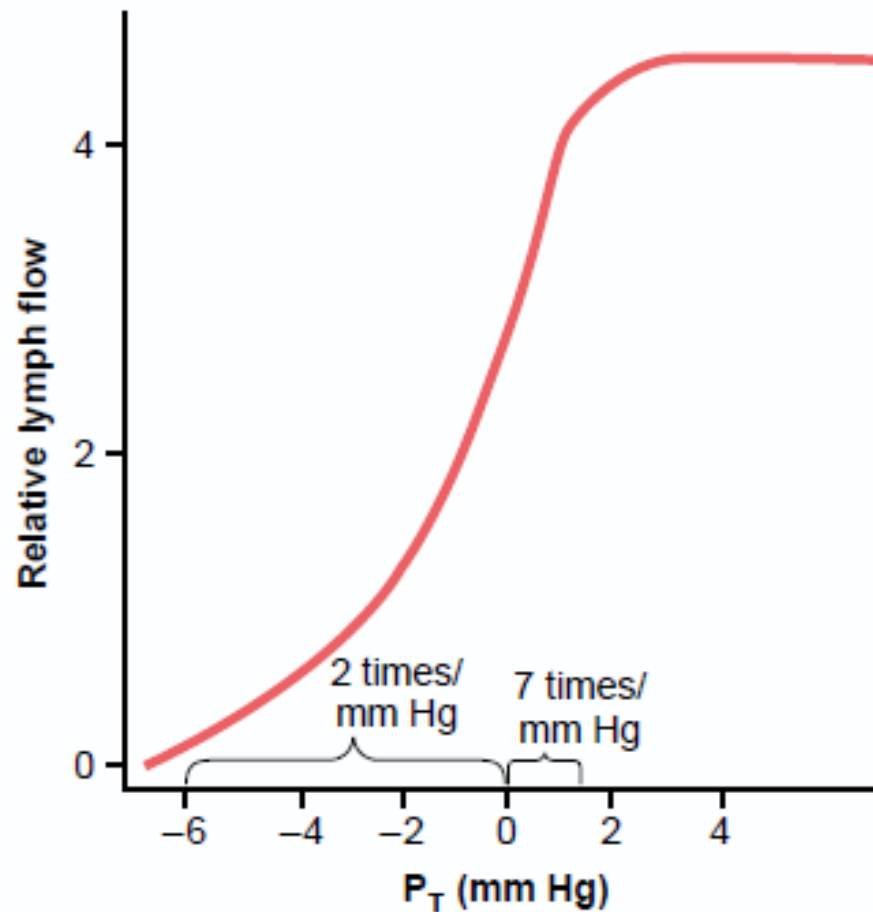
# Terminal Lymphatic Capillaries



# Formation of Lymph



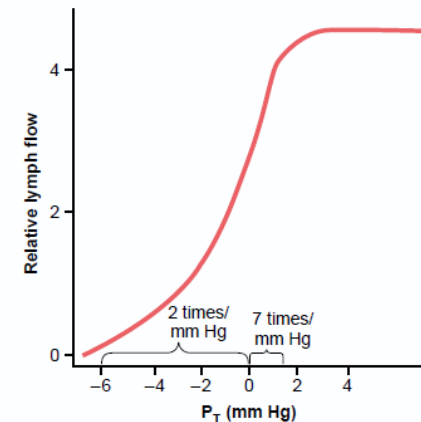
# Formation of Lymph



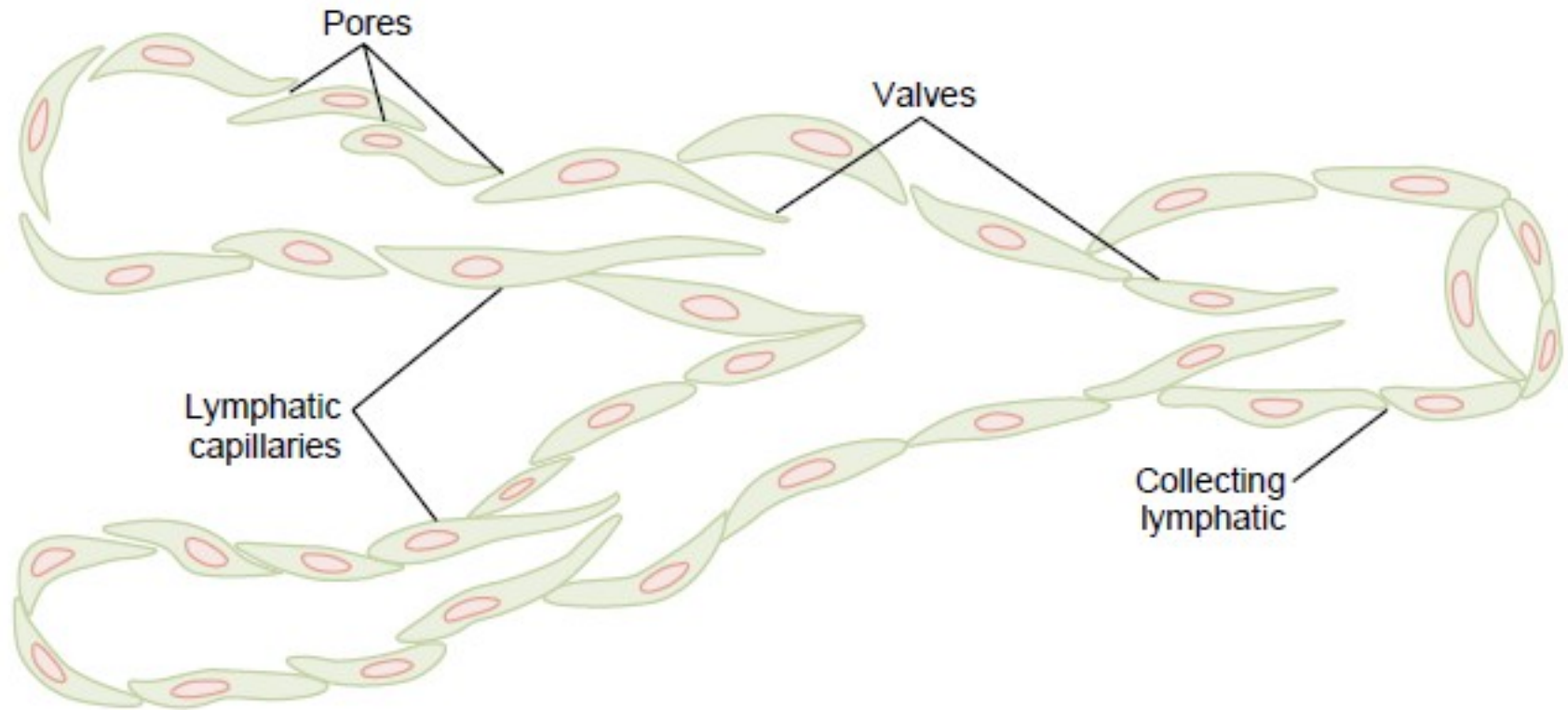
# Formation of Lymph

The factor that increases interstitial fluid pressure also increases lymph flow if the lymph vessels are unctio**n**g normally. Such factors include

- Elevated capillary pressure
- Decreased plasma colloid osmotic pressure
- Increased interstitial fluid colloid osmotic pressure
- Increased permeability of the capillaries



# Lymphatic Capillary Pump

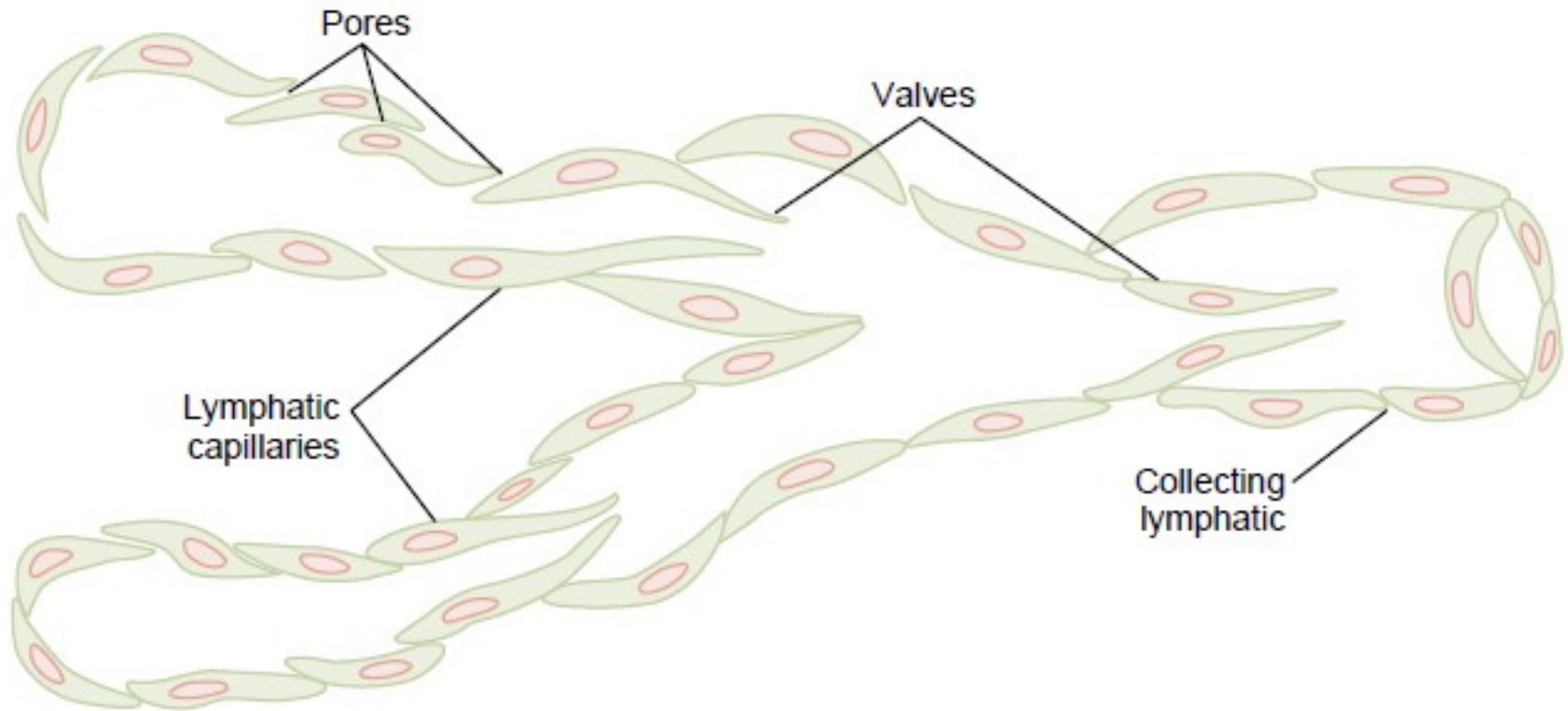


# Negative Interstitial Fluid Pressure

In addition to connective tissue fibers in interstitium, negative interstitial tissue pressure, serves as vacuum to keep the tissue held together.

When the tissues lose their negative pressure, fluid accumulates in the spaces and the condition known as *edema* occurs

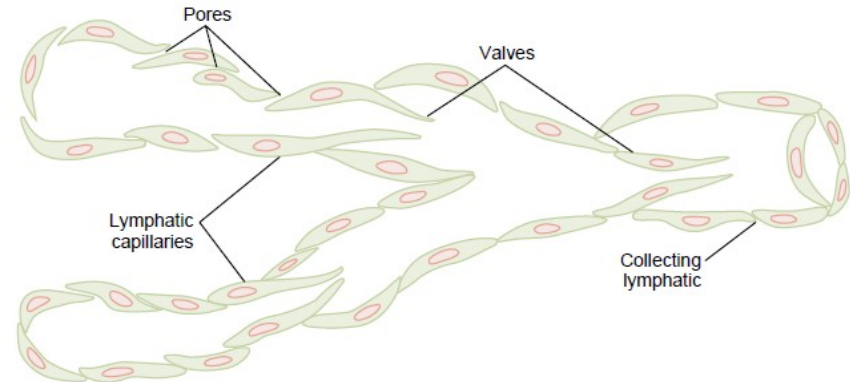
# Lymphatic Pump in collectin lymphatics



# External compression and lymphatic pumping

Any external compression of the lymph vessels also can cause pumping.

- Contraction of surrounding skeletal muscles
- Movement of the parts of the body
- Pulsations of arteries adjacent to the lymphatics
- Compression of the tissues by objects outside the body



Lymphatic System plays important role in

- Controlling Interstitial Fluid Protein
- Concentration, Interstitial Fluid
- Volume, and Interstitial Fluid Pressure